GOVERNMENT OF INDIA
WATER RESOURCES, RIVER DEVELOPMENT AND GANAGA REJUVENATION
LOK SABHA

UNSTARRED QUESTION NO:3139
ANSWERED ON:04.08.2016
Electromagnetic System for Ground Water Reserves
Gandhi Shri Feroze Varun

Will the Minister of WATER RESOURCES, RIVER DEVELOPMENT AND GANAGA REJUVENATION be pleased to state:

(a) whether the Council for Scientific and Industrial Research (CSIR) has come up with a new plan to find groundwater reserves through an electromagnetic survey;
(b) if so, the details thereof;
(c) the extent to which the finding of groundwater reserves through the said system is an effective mechanism; and
(d) the regions being covered in the new survey and the details of the timeline proposed for the completion of the project?

Answer

THE MINISTER OF STATE FOR WATER RESOURCES, RIVER DEVELOPMENT AND GANGA REJUVENATION
(DR. SANJEEV KUMAR BALYAN)

(a) & (b) Yes, Madam. Council o f Scientific & Industrial Research (CSIR) through i ts constituent Laboratory namely, National Geophysical Research Institute (CSIR-NGRI), Hyderabad is preparing a draft plan to survey the sub-surface using Helicopter Borne Transient Electromagnetic to obtain the geophysical mapping of the sub-surface up to a depth of 300 meters.

(c) This geophysical mapping provides a 3D High Resolution image of the aquifer and its geophysical characteristics. The groundwater reserves are then estimated with the help of geological and hydrogeological investigations.

(d) CSIR is planning to take up this geophysical survey initially in Rajasthan, Punjab, Haryana, Bundelkhand, Marathwada and mid-Ganga plains. The Geophysical part is planned to be carried out in a period of 5 to 6 years.

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